

Title (en)

Automated EMC-driven layout and floor planning of electronic devices and systems

Title (de)

Conception automatique et plan d'implémentation pour appareils électriques et systèmes sur la base des compatibilités électromagnétiques

Title (fr)

Automatische Entwerfung und Flächenanordnung elektronischer Geräte und Systeme unter Berücksichtigung der elektromagnetischen Verträglichkeit

Publication

**EP 1347303 A3 20050525 (EN)**

Application

**EP 03010458 A 20010803**

Priority

- EP 01959558 A 20010803
- US 22290600 P 20000803
- US 30447901 P 20010710

Abstract (en)

[origin: EP1347303A2] An apparatus for electromagnetic compatibility-driven design comprising an electromagnetic field calculator configured and arranged to receive placement information relating to a relative placement of a plurality of circuit components and at least one emissions profile, each emissions profile corresponding to one among the plurality of circuit components; and an electromagnetic interference calculator coupled to the electromagnetic field calculator and configured and arranged to receive at least one susceptibility profile, each susceptibility profile corresponding to one among the plurality of circuit components. The electromagnetic field calculator is further configured and arranged to output information regarding an induced electromagnetic field, and the electromagnetic interference calculator to receive the information regarding an induced electromagnetic field and to output information regarding effects caused by the induced electromagnetic field. <IMAGE>

IPC 1-7

**G01R 31/00**; **G01R 29/08**

IPC 8 full level

**G01R 29/08** (2006.01); **G01R 31/00** (2006.01)

CPC (source: EP)

**G01R 29/0821** (2013.01); **G01R 29/0871** (2013.01); **G01R 31/002** (2013.01)

Citation (search report)

- [A] EP 0982594 A1 20000301 - BRITISH TELECOMM [GB]
- [X] WOOD D V: "The prediction of the EMC performance of electronic systems prior to fabrication", ELECTROMAGNETIC COMPATIBILITY, 1991. SYMPOSIUM RECORD., IEEE 1991 INTERNATIONAL SYMPOSIUM ON CHERRY HILL, NJ, USA 12-16 AUG. 1991, NEW YORK, NY, USA, IEEE, US, 12 August 1991 (1991-08-12), pages 145 - 150, XP010051520, ISBN: 0-7803-0158-7
- [A] ZAKY S G ET AL: "Susceptibility Mapping", IEEE, 17 August 1992 (1992-08-17), pages 439 - 442, XP010249876
- [A] ANONYMUS: "RADIO FREQUENCY PROFILE SCANNER", IBM TECHNICAL DISCLOSURE BULLETIN, IBM CORP. NEW YORK, US, vol. 37, no. 2B, 1 February 1994 (1994-02-01), pages 429 - 430, XP000433901, ISSN: 0018-8689

Cited by

DE102011088171A1; CN105048735A; EP1837666A4; CN103487709A; RU2476894C2; CN110927499A; RU2686517C1; CN112364599A

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DOCDB simple family (application)

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